

GURVICH, V.F.

Formation of the Kara-Kul' Lake fauna (Pamirs). Izv.Otd.  
est.nauk AN Tadzh.SSR no.2:81-108 '58. (MIRA 13:4)

1. Kafedra zoologii bespozvonochnykh i gidrobiologii  
Sredneaziatskogo gosudarstvennogo universiteta im. V.I.  
Lenina.

(Kara-Kul' Lake--Fresh-water fauna)

GURVICH, V.F.

A new species of the genus *Cyclops* O.F. Mull. (Crustacea, Copepoda)  
from Lake Kara-Kul' (Pamirs) [with summary in English]. Zool. zhur.  
37 no.2:294-297 F 198. (MIRA 11:3)

1. Kafedra zoologii bespozvonochnykh i gidrobiologii Sredneaziatikogo  
gosudarstvennogo universiteta, Tashkent.  
(Kara-Kul', Lake--Copepoda)

GURVICH, V.F.

Piscicultural research in Uzbekistan. Uzb. biol. zhur. no.3:39-41  
'60. (MIRA 13:7)

1. Sredneaziatskiy gosuniversitet im. V.I. Lenina.  
(UZBEKISTAN--FISH CULTURE)

GURVICH, V.F.

Acclimatization of commercial fishes in Lake Kara-Kul' (Pamirs).  
Vop.ikht. 1 no.2:281-285 '61. (MIRA 14:6)

1. Tashkentskiy gosudarstvennyy universitet imeni V.I.Lenina.  
(Kara-Kul'--Fishes) (Animal introduction)

GURVICH, V.F.

Microfauna of small bodies of water in the Pamirs. Uzb.biol.  
zhur.6 no.4:69-74'62. (MIRA 16:7)

1. Tashkentskiy gosudarstvennyy universitet imeni Lenina.  
(PAMIRS--FRESHWATER FAUNA)

GURVICH, V.F.

Zooplankton in Lakes Bangkol' and Shor-Kol' (Gazira). Nauch.  
trudy TashGU no.241. Biol. nauki no.44:157-163 '64.  
(MIRA 18:7)

GURVICH, Veniamin Grigor'yevich; KOLUZAYEV, Arkadiy Mikhaylovich;  
KAMINSKIY, Ye.A., red.

[Repair and operation of high-speed VAB-28 switches] Remont i ekspluatatsiya bystrodeistvuyushchikh vykliuchatelei tipa VAB-28. Moskva, Izd-vo "Energiya," 1964. 54 p. (Biblioteka elektromontera, no.117) (MIRA 17:4)

GURVICH, V.G.; MISHELEVICH, O.I.

Attachment for an accurate cutting of rubberized fabrics on a  
diagonally-cutting lathe. Kauch. 1 rez. 20 no.1:46-47 Ja '61.  
(MIRA 14:3)

1. Leningradskiy shinny zavod.  
(Leningrad--Tires, Rubber)  
(Rubberized fabrics)



GURVICH, V. G., Eng.

USSR/Electricity - Power Systems  
Subways

Jul 50

"Development of the Moscow Subway Power System," V. A. Tumanov, V. G. Gurvich,  
E. I. Bykov, Engineers, Moscow Subway imeni Kaganovich

"Elektrichestvo" No 7, pp 23-29

Describes development and improvement of Moscow subway power system over 15 years.  
Gives operational data on substation equipment, electric networks, automatic devices,  
telecontrol, and protection. Details work done by number of Moscow plants, research  
institutes and organizations.

PA 16413

GURVICH, V.G., inzhener.

Need of revising the Safety Regulations. Energetik 4 no.1:14-15  
Ja '56. (MIRA 9:4)

(Electric engineering--Safety measures)

GURVICH, V.G., inzhener.; GERTSKIN, M.G., inzhener.

New types of high-speed automatic circuit-breakers. Prom. energ. 12  
no.4:3-6 Ap '57. (MLRA 10:5)

1. Moskovskiy metropoliten imeni V. I. Lenina.  
(Electric circuit breakers)

GURVICH, V.G., starshiy elektrodishpetcher; OSKOLKOV, K.N.

Protection of kilampere-meter feeder circuits. Elek. i topl. tiaga  
2 no.11:15 N '58. (MIRA 11:12)

1.Moskovskiy metropoliten (for Gurvich). 2.Nachal'nik distantсий  
zashchity i avtoteleupravleniya Moskovskogo metropolitena (for  
Oskolkov).

(Electric railroads--Wires and wiring)

8(2)

SOV/105-59-7-24/30

AUTHORS:

Gurvich, V. G., Engineer, Oskolkov, K. N., Engineer

TITLE:

Once More on the Protective Circuit for the Direct Current Rails of Converter Plants (Yeshche raz o skheme zashchity shin vypryamlenogo toka preobrazovatel'nykh podstantsiy)

PERIODICAL:

Elektrichestvo, 1959, Nr 7, p 85 (USSR)

ABSTRACT:

Experience gathered at the transformer plant of the Moscow subway showed that the previously (Ref 1) described protective circuit (against inclusions of direct current rails) have an important disadvantage, which consists in the fact that in the case of single-phase inclusions of the high-voltage cables, or in the case of a damaged insulation of the electrical equipment of the alternating-current side of the transformer plant, or during the operation of welding apparatus on the rails of the ground leak circuit, an alternating current passes through, thus rendering a false operation possible. For the purpose of avoiding a false operation inductive resistors in form of chokes without an air gap and with very low ohmic resistances are connected in series with the coils of the protective circuit. Experiments showed that, if an alternating current with the industrial frequency of 200 a

Card 1/2

Once More on the Protective Circuit for the Direct  
Current Rails of Converter Plants

SOV/105-59-7-24/30

flows in a steel rail of a length of 1.5 m and a cross section of 30 times 4 mm, a current of 60 a is branched off to the coil of the current relay ET-521/100/ according to the circuit shown by the figure. If, however, with the same current with the relay a choke is connected in series (circuit b), a current of only 0.5 is branched off to the coil. Calculation of the coil and of the relaying device proved that such a reserve can be provided that completely excludes false operation even at the most unfavorable conditions. There are 1 figure and 1 Soviet reference.

ASSOCIATION: Moskovskiy metropoliten (Moscow

Card 2/2

GURVICH, V.G., inzh.; OSKOLKOV, K.N., inzh.

Prevention of false cutoffs. Elek.i tepl.tiagn 4 no.1:  
20-21 Ja '60. (MIRA 13:4)  
(Electric railroads--Maintenance and repair)

MISHELEVICH, O.L.; GURVICH, V.G.

Machine for measuring and recording the width of a moving rubberized material (cord, chafer, bicycle tire fabric). Kauch.i rez. 19  
no.6:54-55 Je '60. (MIRA 13:6)st

1. Leningradskiy shinny zavod.  
(Leningrad--Tires, Rubber)



MISHKELEVICH, O.A.; GURVICH, V.G.

Stand with automatic device for removing curing bags from tire casings. Kauch.i rez. 19 no.10:58 0 '60. (MIRA 13:10)

1. Leningradskiy shinnyy zavod.  
(Tires, Rubber)

3/169/61/000/008/003/053  
A006/A101

AUTHORS: Amirkhanov, Kh. I., Brandt, S. B., Bartnitskiy, Ye. N., Gurvich,  
V. S., Gasanov, S. A.

TITLE: On the problem of preservation of radiogenic argon in glauconites

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 8, 1961, 4-5, abstract 8A37  
("Tr. 6-y sessii Komis. po opredeleniyu absolyutn. vozrasta geol.  
formatsiy", 1957, Moscow, AN SSSR, 1960, 202-207)

TEXT: The basic premise of using glauconites to determine the absolute age by the K-argon method, is the similarity of its structure with the mica structure. The authors studied the dependence between the quantity of radiogenic argon liberated from glauconite and the heating temperature within a range of 100 - 1,500°C. Argon was determined by the method of isotopic dilution. The data obtained are compared with the known E. K. Gerling curves showing argon liberation from mica and microcline. At 100°C the glauconite loses about 20% argon, whereas argon liberation from microcline and muscovite begins at 400 and 600°C respectively. At 500°C, 100% argon are liberated from glauconite, whereas 8 hour heating of microcline at 1,200°C entails only 76% argon loss.

Card 1/2

On the problem of preservation of radiogenic ...

2/169/61/000/008/003/053  
A006/A101

Debyeograms show that argon loss occurs prior to the beginning of destruction of the glauconite lattice. The peaks on the argon liberation curve (at 100 and 500°C) coincide with two endothermic effects on the glauconite thermogram; they correspond to the separation of adsorbed and constitution water. All this indicates a weak bonding of argon in the glauconite lattice and requires a careful study of the geological history of each specimen when interpreting the K-argon ages of glauconite. The weak bonding of argon in glauconite may possibly be caused by small grain sizes (5 - 100  $\mu$ ) of the latter, since processes of ion and atom loss and substitution occur mainly on the crystal surfaces.

I. Chernushev

[Abstracter's note: Complete translation]

Card 2/2

AMIRKHANOV, Kh.I.; BRANDT, S.B.; BARTNITSKIY, Ye.N.; GURVICH, V.S.;  
GASANOV, S.A.; IVANOV, V.S.

Thermal stability of radiogenic argon in the dispersion micas.  
Trudy Geol.inst.Dag.fil. AN SSSR 1:194-199 '57. (MIRA 14:9)  
(Argon) (Mica)

Gurvich, V. S.

**AUTHORS:** Amirkhanov, Kh. I., Member of the AN Azerbaydzhan SSR, 20-2-33/60  
Brandt, S. R., Bartnitskiy, Ye. N., Gurvich, V. S., Gasanov, S. A.

**TITLE:** Problem of the Preservation of Radiogenic Argon in Glauconites (K vo-  
prosu o sokhrannosti radiogennogo argona v glaukonitakh).

**PERIODICAL:** Doklady AN SSSR, 1958, Vol. 118, Nr 2, pp. 328-330 (USSR).

**ABSTRACT:** Glauconite was chosen for the determination of the absolute age of  
sedimentary rocks due to its great structural similarity with mica,  
especially with biotite. The first samples showed good results, as  
far as the agreement of the absolute age with the assumed geological  
age is concerned. Beside data on a good stability of the glauconite  
structure a weak potassium-linkage to the lattice (reference 4) is  
indicated. The preservation of potassium and thus also of radiogenic  
argon apparently depends on the state of dispersion of the micas. In  
glauconites from Dagestan sometimes very small contents to complete  
absence of radiogenic argon were determined. The method was described  
in earlier papers (references 7-9). In order to determine the problem  
mentioned in the title, the dependence of the separated radiogenic  
argon on the temperature of heating was investigated. Simultaneously  
samples for an X-ray structural analysis were produced. The remaining  
content of argon after 8 and 10 hours of heating at 100-1150°C is gi-

Card 1/3

Concerning the  
Problem of the Preservation of Radiogenic Argon in Glauconites. 20-2-35/60

ven in table and figure 1. About 20% of radiogenic argon are already lost from glauconite at 100°C. At 500°C argon is entirely separated. Argon is, for instance, much more solidly bound to muscovite and microcline. Its linkage to the crystal lattice of glauconite, however, is very weak. As separation of argon already takes place before the destruction of the glauconite lattice, as the X-ray structural analysis (table 2) proves. When comparing the curves of the separation of radiogenic argon with those of the thermal analysis (reference 12,13) it will be seen that the 2 endothermic effects (between 100 and 200°C, and between 500 and 600°C, respectively) of the latter (separation of the adsorbed water and loss of the water of constitution) are in agreement with the peaks of the curve of the separation of argon. The loss of the adsorbed water apparently entails the loss of 20% argon, whereas that of the water of constitution causes the separation of the argon residue. This also indicates a weak argon- and possibly also a weak potassium-linkage to the glauconite-lattice. Further investigations are necessary. For determining the absolute age of the sediments according to glauconites a sufficient knowledge of the geological history of every individual sample is necessary. Glauconite may possible be used as material for paleo-thermometric investigations.

Card 2/3

Concerning the Problem of the Preservation of Radiogenic Argon 20-2-35/60  
in Glauconites.

There are 2 figures, 2 tables, and 13 references, 11 of which are  
Slavic.

ASSOCIATION: Dagestan Branch of the AS USSR (Dagestanskiy filial Akademii nauk  
SSSR).

SUBMITTED: June 22, 1956.

AVAILABLE: Library of Congress.

Card 3/3

80V/11-59-3-8/17

3(8)

**AUTHORS:** Asirhanov, Kh.I.; Frandt, S.P.; Bartnitskiy, Ye.I.; Gasanov, S.A.; and Gurvich, V.S.

**TITLE:** The Mechanism of Radiogenic Argon Losses in Mica (O mekhanizme poter' radiogenogo argona v slyzhakh)

**PERIODICAL:** Investitsiya Akademi Nauk SSSR, Seriya Geologicheskaya, 1959, Nr 3, pp 104-107 (USSR)

**ABSTRACT:** The thermic stability of radiogenic ( $^{40}\text{Ar}$ ) argon was tested by the above-mentioned authors in dispersed mica. It showed that low-temperature losses (150 - 600 C) of  $^{40}\text{Ar}$  argon were incurred, beginning with grains of the 50-100 micron order. Graphical representations and equations were developed by having used as basis the Langmuir order:

$$\frac{V}{V_M} = \frac{bp}{1 + bp} \quad (1)$$

Card 1/4

temperature dependence:

$$b = a \frac{q}{RT} \quad (2)$$

Here  $\frac{V}{V_M}$  - the relative quantity of the absorbed gas;  $p$  - pressure;  $a$  - numerical coefficient dependent upon the properties of the substance;  $q$  - the gas to be absorbed;  $T$  - temperature of sorption. The

Card 2/4

value  $q/T$  has usually the order  $10^3 \left( \frac{10^{11}}{8.22 \cdot 10^7} \right)$ .

For the initial analysis it is possible to use  $Q/p = 10$ . By using these data, the authors transform (1) and (2), as above, applicably to this case:

$$\frac{A_0}{A_M} = \frac{10 \cdot 1000/T}{1 + 10 \cdot 1000/T}$$

The authors arrived at the following conclusions:  
1) Losses of radiogenic argon from mica up to a temperature of 600 C are incurred as a result of the desorption processes and are well described by the

Card 3/4

isotherms of Langmuir; 2) losses of argon in mica resulting from a diffusion become perceptible only after a temperature of 600 C; 3) at normal temperatures, the diffusion coefficient in mica is not to exceed  $10^{-11} \text{ cm}^2/\text{sec}$ . There are 4 graphs and 6 Soviet references.

**ASSOCIATION:** Dagestanskii filial AN SSSR, R. Makhachkala (The Dagestan Branch AS USSR, Makhachkala)

**SUBMITTED:** June 5, 1958.

Card 4/4



GURVICH, V.S., inzh.

Kerosene torches instead of acetylene ones. Energetik 8 no.4:31-32  
Ap '60. (MIRA 13:8)

(Welding--Equipment and supplies)

GURVICH, V.S., inzh.; GOLODNOVA, O.S., inzh.

Rotor bands from aluminum alloys. Elek.sta. 32 no.4:94-95 Ap  
'61. (MIRA 14:7)

(Turbogenerators)

GUNIN, V. P., inzh.; GURVICH, V. S., inzh.

Installation of rubber rings in the seals of water-cooled turbo-  
generators. Energetik 12 no.4:22-24 Ap '64. (MIRA 17:7)

GUAVICH, V.T.; BARASH, L.I.

Surgical treatment of fistulous forms of osteoarticular tuberculosis.  
Zdrav. Bel. 7 no.8:28-30 Ag '61. (MIA 15:2)

1. Iz IV klinicheskoy bol'nitsy Minska (glavnyy vrach Ye.M.  
Sel'dimirova).  
(BONES\_\_TUBERCULOSIS) (JOINTS\_\_TUBERCULOSIS)

AUTHORS: Gurvich, V.V. and Tseyeb, Ya.Ya. SOV/21-58-10-22/27

TITLE: A Microbenthometer for the Quantitative Sampling of Microbenthos (Mikrobentometr dlya vzyatiya kolichestvennykh prob mikrocentosa)

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1958, Nr 10, pp 1120-1123 (USSR)

ABSTRACT: The authors describe a device (microbenthometer), with the aid of which silt samples can be taken from the bottom of water reservoirs for counting benthonic microfauna. This device was designed on the principle of taking monolithic samples, and represents an improved version of the Tseyeb tube [Ref 2]. The main parts of the device are manufactured by the Leningrad "Gidrometprilad" plant. The authors also give a description of the functioning of this device and the manner in which it should be operated. There are

Card 1/2

30V/21-56-10-22/27

, A Microbenthometer for the Quantitative Sampling of Microbenthos

2 photos and 2 Soviet references.

ASSOCIATION: Institut gidrobiologii AN UkrSSR (Institute of Hydrobiology of the AS UkrSSR)

PRESENTED: By Member of the AS UkrSSR, A.P. Markevich

SUBMITTED: May 10, 1958

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Inland waterways--Analysis
2. Sedimentation--Sampling
3. Sedimentation--Testing equipment

Card 2/2

GURVICH, V.V. [Hurvykh, V.V.]

Study of the Infusoria of the Kakhovka Reservoir. Dop. AN URSR no.6:  
836-839 '60. (MIRA 13:7)

1. Institut gidrobiologii AN USSR. Predstavleno akademikom AN  
USSR A.P.Markevichem [O.P.Markevychem].  
(Kakhovka Reservoir--Infusoria)

GURVICH, V. V.

Cand Biol Sci - (diss) "Formation of fauna of the micro-benthos and near-bottom plankton of the Kakhovskiy Reservoir in the first years of its establishment." Kiev, 1961. 16 pp; (Division of Biol Sci Academy of Sciences Ukrainian SSR); 200 copies; price not given; (KL, 10-61 sup, 210)



GURVICH, V.V.

Formation of microbenthic fauna in the upper part of Kakhovka  
Reservoir. Nauch. dokl. vys. shkoly; biol. nauki no.3:18-20 '61.  
(MIRA 14:7)

1. Rekomendovana Institutom gidrobiologii AN USSR.  
(KAKHOVKA RESERVOIR—BENTHOS)

GURVICH, V.V. [Hurvyeh, V.V.]

Fauna of microbenthos and natural plankton in the Kakhovka  
Reservoir. Pratsi Inst. zool. AN URSR 30:29-39 '61.  
(MIRA 16:8)

TSEYEB, Ya.Ya.; ROLL, Ya.V.[deceased]; ZEROV, K.K.; VLADIMIROVA, K.S.  
[Vladymyrova, K.S.]; OLIVARI, G.A.[Olivari, H.A.]; GURVICH,  
V.V.; BIRGER, T.I.[Birher, T.I.]; MALYAREVSKAYA, O.Ya.  
[Maliarevs'ka, O.IA.]; CHORNOGORENKO, M.I.[Chernohorenko,  
M.I.]; LITVINOVA, M.O.[Lytvynova, M.O.]; ANDRIYCHUK, M.D.,  
red.

[Kakhovka Reservoir; a hydrobiological outline] Kakhovs'ke  
vodoimyshe; hidrobiologichnyi narys. Kyiv, Naukova dumka,  
1964. 303 p. (MIRA 17:8)

1. Akademiya nauk URSU, Kiev. Instytut hidrobiologii.

GURVICH, V.V. [Hurvyeh, V.V.]; POLISHCHUK, V.V.

Materials for studying micro- and macrobenthos as a single  
bottom cenosis. Dop. AN URSSR no.7:939-941 '65.

(MIRA 18:8)

1. Institut gidrobiologii AN UkrSSR.

GURVICH, V.V.

Sixth Congress of Polish Hydrobiologists. Gidrobiol. zhur. 1 no.3:69  
'65. (MIRA 18:6)

GURVICH, V.V.

Ecologic and zoogeographical characteristics of bottom plankton  
and microbenthos of Kakhovka Reservoir. Gidrobiol. zhur. 1  
no.4:67-68 '65. (MIRA 18:10)

1. Institut gidrobiologii AN UkrSSR, Kiyev.

GURVICH, V.V.

Composition and quantitative development of Cladocera in micro-  
benthos of the Desna River. Zool. zhur. 44 no.1:125-127 1955.

(MIRA 18:1)

1. Institut gidrobiologii AN UkrSSR, Kiev.

KAPLAN, B.G.; GURVICH, V.Ye.

Multiple use of mathematical methods in the electrophoretic investigation of the protein composition of blood under normal and pathological conditions. Prim. mat. metod. v biol. no.2:183-190 '63. (MIRA 16:11)

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GURVICH, V.Ye.

The effect of splenectomy on the polyglucin content of the blood.  
Probl. gemat. i perel. krovi 3 no.5:47-51 S-O '58. (MIRA 11:11)

1. Iz kafedry fiziologii (zav. - dotsent S.R. Odzhakhverdi-Zade)  
Azerbaydzhanskogo instituta imeni N. Narimanova (dir. - prof. B.A.  
Ryvazov).

(~~SPLINEN~~, effects of excision  
on polyglucin content of blood after intravenous admin.  
to rabbits (Rus))

(~~DEXTRAN~~, related compounds  
polyglucin content of blood after intravenous admin.,  
eff. of splenectomy in rabbits (Rus))

GURVICH, V.Ye.

"Anglo-Russian Medical Dictionary" by M.P. Mul'tanovskii and A.IA.  
Ivanova. Reviewed by V.E. Gurchich. Azerb.med.zhur. no.10:67-69

0 '59.

(MIRA 13:2)

(MEDICINE--DICTIONARIES) (ENGLISH LANGUAGE--DICTIONARIES--RUSSIAN)  
(MUL'TANOVSKII, M.P.) (IVANOVA, A.IA.)

GURVICH, Ya., kand.yuridicheskikh nauk

Strictly observe the laws of the Soviet Union. Pozh.delo 7  
no.12:10-11 D '61. (MIRA 14:11)

1. Pomoshechnik prokurora RSFSR.  
(Fire prevention--Laws and regulations)

GURVICH, Ya. A., Cand Tech Sci--(diss) "Study of the resistance of certain <sup>dyes</sup> sulfurous pigments to the effect of moisture and air oxygen." Mos, 1958. 13 pp (Min of Higher Education USSR. Mos Order of Lenin Chem-Technological Inst im D.I. Mendeleev. Dorogomilovo Chem Plant im M.V. Frunze), 120 copies (KL,25-8, 112)

- 85 -

GURVICH, Ya. A.

AUTHORS: Gurvich, Ya. A., Khmel'nitskaya, I. L.,  
Candidate of Chemical Sciences. 64-1-5/19

TITLE: Investigations of the Resistance of Some Sulfur Dyes to  
the Influence of Moisture and Atmospheric Oxygen  
(Issledovaniye ustoychivosty nekotorykh sernistykh krasiteley  
k deystviyu vlagi i kisloroda vozdukha)

PERIODICAL: Khimicheskaya Promyshlennost', 1958, Nr 1, pp. 21-27 (USSR).

ABSTRACT: Two dyes, called sulfur brown ~~JK~~ and sulfur black K were used  
as investigation samples and tested for accelerated aging. For  
this purpose an equipment was developed which made it possible  
to subject the samples at a certain temperature ( $\pm 0.5^\circ$  pre-  
cisely) to a dry or moist nitrogen or air current, resp. of any  
current velocity. The investigations showed that considerable  
aging phenomena (reduction of coloring power, formation of sul-  
furic acid and of a constituent not soluble in sodium sulfide  
solution) can occur only in the case of joint action of moisture  
and atmospheric oxygen, whereby a greater sensitivity of the  
brown dye was observed. The latter contains thiazol groups  
according to its constitution whereas the black one contains

Card 1/3

Investigations of the Resistance of Some Sulfur  
Dyes to the Influence of Moisture and Atmospheric Oxygen

64-1-5/19

thiazon groups. Investigations were carried out in order to detect the influence of the free sulfur by means of an addition of sulfur to the dyes and an extraction according to Fierz-David (reference 10) of the already existing sulfur resp. The results showed that there is no influence of the free sulfur, but that probably a destruction of the thiazol, and thiazon groups, resp. by an oxidation of the sulfur in the thioester takes place, or an oxidation and splitting off of the di- and polysulfide groups occurs. In order to determine these facts, the dyes were transformed into hydrosols according to L. I. Belen'kiy and investigated with the photoelectric colorimeter. No differences in the color intensity were found and the chromophoric  $\text{C-S-C}$  binding was found to be stable. The samples freed according to Jones and Reid (reference 12) from polysulfide sulfur showed in the investigations of accelerated aging that the  $\text{S-S}$  binding decomposes and sulfuric acid is formed by oxidation. However, the  $\text{C-S-S}$  binding decomposes as well. It is found that in the case of presence of di- and polysulfide groups not only a reversible redox reaction takes place, but also an irreversible oxidation of the sulfur dyes which can be effected by a prolonged contact with moist air.

Card 2/3

Investigations of the **Resistance** of Some Sulfur  
Dyes to the Influence of Moisture and Atmospheric Oxygen

64-1-5/19

There are 5 figures, 7 tables, and 16 references, 5 of which  
are Slavic.

AVAILABLE: Library of Congress.

1. Sulfur dyes-Aging-Test results
2. Sulfur dyes-Moisture resistance-  
Test results
3. Sulfur dyes-Oxidation resistance-Test results
4. Moisture resistance-Test results

Card 3/3

SOLODAR', L.S.; ~~GURVICH~~, Ya.A.

Scientific research work at Dorogomilovskii Chemical Plant. Zav.  
lab. 26 no.12:1430-1432 '60. (MIRA 13:12)

1. Nachal'nik Tsentral'noy laboratorii Dorogomilovskogo khimicheskogo  
zavoda (for Solodar'). 2. Nachal'nik fizicheskoy laboratorii  
Dorogomilovskogo khimicheskogo zavoda (for Gurvich).  
(Chemical laboratories)



GURVICH, Ya.A.; KOSTIKOVA, V.P.

Use of ultraviolet spectroscopy in the analysis of new kinds of  
captax put on the market. Zhur.VKHO 7 no.2:231-232 '62.

(MIRA 15:4)

1. Dorogomilovskiy khimicheskiy zavod.  
(Benzothiazole--Spectra)

GURVICH, Ya. A.; ARISTOVA, T. V.; KOSTIKOVA, V. P.

Spectrophotometric determination of 2,2'-dibenzothiazole  
disulfide. Zhur. VKHO 7 no.5:580 '62. (MIRA 15:10)

1. Dorogomilovskiy khimicheskiy zavod imeni Frunze.

(Benzothiazole--Spectra)

KIRPICHNIKOV, P.A.; GURVICH, Ya. A.; IVANOVA, M.V.

Synthesis of esters of  $\beta$ -naphthylphosphorous acid. Zhur. ob.  
khim. 34 no. 3:856-857 Mr '64. (MIRA 17:6)

1. Kazanskiy khimiko-tehnologicheskiy institut imeni S.M.  
Kirova i Dorogomilovskiy khimicheskiy zavod imeni M.V.Frunze.

L 33333-65 EPF(c)/EWP(j)/EWT(m)/T/ Pc-L/Pr-L RM

ACCESSION NR: AP5005156

S/0064/65/000/002/0020/0021

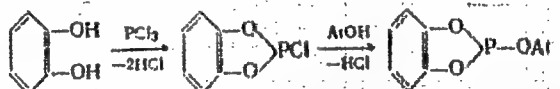
AUTHORS: Gurvich, Ya. A.; Kirpichnikov, P. A.; Tsurul'nikova, N. V.; Zil'm, Yu. B.; Karpicheva, A. I.; Popova, L. M.

TITLE: Preparation of alkylaryl esters of pyrocatechol phosphorous acid as stabilizers of polymer materials

SOURCE: Khimicheskaya promyshlennost', no. 2, 1965, 20-21

TOPIC TAGS: alkylaryl ester, pyrocatechol, phosphorous, acid, thermostabilization

ABSTRACT: A description of a two-step synthesis of alkylaryl esters, which may become the basis for the industrial production of nonstaining thermostabilizers of polymers, is given and shown by



Side reactions result in the formation of diphosphite compounds. In the first step, to 1 mol of pyrocatechol, held in an enameled steel reactor with cooling coil, 1.5 mol of phosphorous trichloride are added through a period of 15 - 20

Card 1/2

I. 33333-65

ACCESSION NR: AP5005156

minutes. The temperature is gradually brought to 90C through 6-7 hours, and to 110C in 2 hours. It is kept there for 10-11 hours. The products of reaction are then distilled. Presence of water during the reaction is beneficial. The second esterification step with phenols or naphthols is performed in inert solvents or without them in enameled steel reactors. The process involves stirring and heating to 120C under bubbling nitrogen. Orig. art. has: 3 figures and 1 formula.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: 00

NO REF SOV: 006

OTHER: 003

Card 2/2

KODERAKAYA, B.M.; KODERAKAYA, B.M.; KODERAKAYA, B.M.;  
KIRI ICHIRU, M.; KIRI ICHIRU, M.

Effect of stabilizers on a prolonged thermal oxidative aging of  
the polyamide "68." Plast. massy no.8:7-8 1965. (MIRA 1965)

L 2196-66 EWT(1)/T/EWA(h) IJP(c) AT

ACCESSION NR: AP5014567

UR/0181/65/007/006/1696/1698

AUTHOR: Gurvich, Yu. A. 44.55

TITLE: On anisotropic scattering in semiconductors 44.55

SOURCE: Fizika tverdogo tela, v. 7, no. 6, 1965, 1696-1698

TOPIC TAGS: silicon, germanium, phonon scattering, electron scattering, relaxation time

ABSTRACT: This is a continuation of earlier work by the author (FTT v. 6, 2107, 1964), where he calculated the components of the tensor of the relaxation time of hot electrons in germanium and in silicon in the case when the scattering occurs via spontaneous emission of acoustic phonons. The present article is devoted to a further study of the variation of the ratio of the longitudinal to the transverse relaxation times ( $\gamma$ ) with increasing electron energy. In particular, the connection between the character of this variation and the form of the equal-energy surfaces is established. The results show that  $\gamma$  decreases monotonically with increasing energy for both Ge and Si. The quantity  $\gamma_1/\gamma_0$ , where the subscripts 1 and 0 stand for the cases when the number of thermal phonons interacting with the electrons ( $N$ ) is  $\ll 1$  and  $\gg 1$  respectively, is found to vary strongly with the ratio of the deformation-potential constants ( $C_2/C_1$ ). This variation is plotted in Card 1/3

L 2196-66

ACCESSION NR: AP5014567

Fig. 1 of the Enclosure, and is shown to be related to the degree of oblation or prolation of the energy ellipsoids. The possibility that  $\gamma$  may vary with the energy, and the resultant effects at low temperatures, are briefly discussed. Orig. art. has: 2 figures. 3

ASSOCIATION: Moskovskiy gosudarstvennyy pedagogicheskiy institut im. V.I. Lenina  
(Moscow State Pedagogical Institute) 1/1, 55

SUBMITTED: 18Dec64

ENOL: 01

SUB CODE: 88

NR REF SOV: 002

OTHER: 003

Card 2/3



L 2196-66

ACCESSION NR: AP5014567

ENCLOSURE: 01

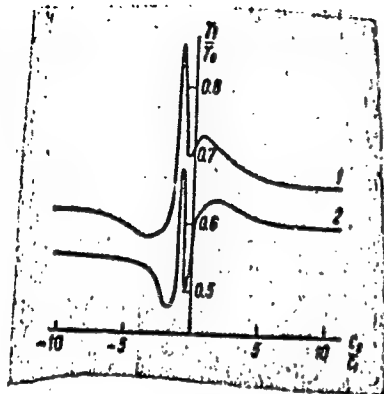


Fig. 1. Dependence of the ratio  $\eta_1/\eta_2$  on  $C_1/C_2$ . 1 - Ga, 2 - Si.

Card 3/3 DP

L 2292-66 EWT(1)/T/EWA(h) IJP(c) AT

ACCESSION NR: AP5014569

UR/0181/65/007/006/1706/1709

AUTHOR: Gershenzon, Ye. M.; Gurvich, Yu. A.; Rabinovich, R. I.

TITLE: Concerning the interaction between carriers in semiconductors

SOURCE: Fizika tverdogo tela, v. 7, no. 6, 1965, 1706-1709

TOPIC TAGS: cyclotron resonance, electron interaction, semiconductor carrier, line broadening

ABSTRACT: The authors consider the possibility of using cyclotron resonance (CR) for the observation and investigation of the interaction between definite groups of carriers, such as electrons belonging to two different minima of the conduction band. A hypothetical experiment is proposed, in which two electromagnetic waves with different frequencies and different powers are incident on the sample. The response of one group of electrons to the power of the electromagnetic wave at the frequency of the second group should manifest itself in an increase in the energy of the electrons of the first group

Card 1/2

L 2292-66

ACCESSION NR: AP5014569

and in a broadening of their resonance line. Quantitative estimates based on the results, made under certain simplified assumptions, suggest that this effect is perfectly feasible. For example, at 4.2K, for germanium with electron and hole density  $10^{12} \text{ cm}^{-3}$ , the line width of the holes should increase by a factor 2.3 in a field of 4.7 V/cm. The experiment proposed does not require noticeable complication of the ordinary cyclotron resonance observation techniques, and necessitates only that it be simultaneously realizable at two frequencies at a fixed value of the magnetic field. Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy pedagogicheskiy institut im.  
V. I. Lenina (Moscow State Pedagogical Institute) 44,55

SUBMITTED: 13Jul64

ENCL: 00

SUB CODE: 88, NP

NR REF SOV: 000

OTHER: 006

Card

2/2 DP

KIRPICHNIKOV, P.A.; GURVICH, Ya.A.; GLEN, G.P.

Synthesis of alkyl aryl esters of salicylphosphorous acid. Zhur.  
ob. khim. 35 no.4:744-745 Ap '65.

(MIRA 18:5)

1 Kazanskiy khimiko-tehnologicheskii institut imeni S.M. Kirova  
i Drogomilovskiy khimicheskii zavod im. M.F. Prunze.

L. 42050-66 EWT(m)/EWP(1) RM

ACC NR: AP6011232 (A) SOURCE CODE: UR/0413/66/000/006/0074/0074

INVENTOR: Gurvich, Ya. A.; Kirpichnikov, P. A.; Zimin, Yu. B.; Kovarskaya, B. M.; Levantovskaya, L. I.

ORG: none

TITLE: Method of stabilizing polyamides. <sup>15</sup> Class 39, No. 179212 <sup>15</sup>

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 74

TOPIC TAGS: polyamide, chemical stabilizer, fertilizer

ABSTRACT: An Author Certificate has been issued for a method of stabilizing polyamides by introducing organophosphorus stabilizers into them. N-alkylated anilides of arylphosphorous acids are used to expand the variety of organophosphorus stabilizers. [Translation] [NT]

SUB CODE: SUBM DATE: 11Jun64/

Card 1/1 af

UDC: 678.675.048:547.55.41

L 06505-67 EWP(j)/EWI(m) RM  
ACC NR: AP7000487

SOURCE CODE: UR/0079/66/036/006/1147/1149

KIRPICHNIKOV, P. A., IVANOVA, M. V., GURVICH, Ya. A.

"Synthesis of Mixed Esters of o-Amidophenylphosphorous Acid" 1

30.  
13

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 6, 1966, pp 1147-1149

Abstract: The chloride of o-amidophenylphosphorous acid was produced for the first time by reaction of o-aminophenol with phosphorus trichloride in anhydrous toluene medium. Esters of o-amidophenyl-phosphorous acid were produced by reaction of the chlorides with alcohols in absolute diethyl ether medium, using triethylamine with a small amount of pyridine as an organic base to bond the hydrogen chloride liberated. Seven esters were synthesized and characterized. Orig. art. has: 1 table. [JPRS: 37,023]

ORG: none

TOPIC TAGS: organic synthetic process, pyridine, ester, organic phosphorus compound

SUB CODE: 07 / SUBM DATE: 20May65 / ORIG REF: 004 / OTH REF: 002

Card 1/1 mZE

UDC: 547.26'118

0923

1202

GURVICH, Yakov Abramovich; LYANDE, Yu.V., nauchn. red.;  
YEVDOKIMOVA, Ye.D., red.

[Industrial training of laboratory assistants of the  
chemical and petroleum refining industry; methodological  
manual for industrial training foremen' proizvodstvenno-  
obuchenie laborantov khimicheskoi i neftepererabatyvau-  
shchei promyshlennosti; metodicheskoe posobie dlia масте-  
rov proizvodstvennogo obucheniia. Moskva, Proftekhizdat,  
1964. 238 p. (MIRA 17:10)

GURVICH, Yakov Yevseyevich, kand.yuridicheskikh nauk; NIKOLAYEVA, S.A.,  
red.; SAVCHENKO, Ye.V., tekhn.red.

[Drunkenness destroys a man] P'ianstvo gubit cheloveka. Izd.2.,  
dop. i perer. Moskva, Izd-vo "Znanie," 1959. (MIRA 13:4)  
(Alcoholism)



GURVICH, Ye.B.

S.A.Vekshinskii, on his 60th birthday. Radiotekh.i elektron.1 no.12:  
1523-1524 D '56. (MLRA 10:2)

(Vekshinskii, Sergei Arkad'evich, 1896-)

USSR/Medicine - Penicillin  
Medicine - Venereal Diseases

Nov/Dec 48

"Clinical and Histopathological Observations in  
the Treatment of Syphilis With Penicillin," Prof  
V. Ya. Arutyunov, Ye. I. Gurvich, Dr Med Sci,  
Docent A. V. Il'ina; Clinic of Skin and Venereal  
Diseases, MONTI, 6 1/2 pp

"Test Venereal 1 Dermatol" No 6

Treatment consisted of 40,000 units injected in-  
tramuscularly every 3 hours, in all, 1,200,000 to  
3,400,000 units. Immediately thereafter, 6 grams  
of novarsenol (0.15 per day) and 45 - 50 grams of

60/49789

USSR/Medicine - Penicillin (Contd)

Nov/Dec 48

bioguinol. Course lasted 80 - 90 days (one group  
took 3,400,000 units in 8 days). At least 10 or  
15 years will be necessary for complete data on  
any treatment of such diseases.

60/49785

GURVICH, Ye. I.

GURVICH, Ya. I.; OLIVSKIY, M. I.

[Dermatosis in children] Dermatozy v detskom vozraste. Moskva,  
Medgiz, 1958. 146 p. (MIRA 11:9)

(SKIN--DISEASES)

ARUTYUNOV, V.Ya., prof.; ~~GURVICH, Ye.I.,~~ prof. pri uchastii vrachev: E.M. Khuhlarova, Z.F.Ivantsovoy (Podol'sk), A.V.Stepanova, P.N.Goryacheva, M.I.Yeliasyevoy (Mytishchi), S.F.Stepanovoy (Bolshevo), V.A.Leonovoy (Babushkin), M.P.Goncharova (Kaliningrad), G.Ya.Ashkinezer (Kostino), V.M.Pototskogo, G.I.Ponomarevoy, A.A.Plevs. A.V.Boakodarova (Serpukhov), I.I.Kutakova (Yegor'yevsk), G.S.Indenbaum (Kolomna), L.I.Andreyeva, V.G.Ionovoy (Pushkino), G.M.Fedorova (Zagorsk), I.S.Belen'kogo (Tushino)

Late results in the treatment of syphilis. Vest.derm. i ven. 32  
no.2:57-60 Mr-Apr '58. (MIRA 11:4)

1. Iz kozhno-venerologicheskoy kliniki (dir. - prof. V.Ya.Arutyunov)  
Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo  
instituta imeni M.F.Vladimirskogo (dir. - kand.med.nauk P.M.Leonenko)  
(SYPHILIS, ther.  
late results (Rus))

GURVICH, Ye.I.; KONDORSKIY, Ye.

Influence of thickness on the magnetic characteristics of soft alloy  
sheets. Dokl. AN SSSR 104 no.4:530-532 O '55. (MIRA 9:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.  
Predstavlena akademikom G.V.Kordyumovym.  
(Permalloys---Magnetic properties)

GURVICH, Ye.I., inzhener.

Measuring the properties of soft magnetic materials by the bridge method. Elektrichestvo no.1:64-68 Ja '56. (MLRA 9:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metal-lurgii.

(Magnetic materials)

137-58-2-3857

*GURVICH, YE. I*

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 226 (USSR)

AUTHORS: Gurvich, Ye. I., Kondorskiy, Ye. I., Popova, V. P.

TITLE: The Permeability and Losses of Magnetically Nonretentive Alloys of Various Thickness in Alternating Fields (Pronit-sayemost' i poteri magnitomyagkikh splavov raznykh tolsh-chin v peremennykh polyakh)

PERIODICAL: Sb. tr. Tsentr. n. -i. in-t chernoy metallurgii, 1956, Nr 15, pp 131-151

ABSTRACT: Measurement of the magnetic permeability and loss, (L) was performed by a bridge circuit in accordance with a method previously suggested (RzhMet, 1957, Nr 12, abstract 25220K), and at induction values attaining 80% of the saturation level in the frequency interval of 400-300 kc. 0.2-0.02 mm gage strips of the following commercial alloys were investigated: 50N, N79MA, 80NKhS, 50NKhS, and 79NM. The L of high-nickel alloys drops invariably with a diminution in the thickness of the strip, since in the case of these alloys the L are fundamentally determined by eddy currents. In the case of low-nickel alloys a significant portion of the L are

Card 1/2

137-58-2-3857

The Permeability and Losses of (cont.)

hysteresis losses, increasing as the thickness of the strip diminishes. Therefore, in the case of these alloys, each frequency value corresponds to an optimum thickness of the strip at which  $L$  is minimal. Recommendations are made for the employment of various alloys in different frequency intervals, and the optimum strip thickness for the various frequencies is indicated.

P.S.

1. Nickel alloys--Magnetic properties--Measurement

Card 2/2



137-58-2-3858

GURVICH, YE. I.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 226 (USSR)

AUTHOR: Gurvich, Ye. I.

TITLE: Methods of Measuring Magnetization Curves and the Losses of Magnetically Soft Alloys at Sonic and Ultrasonic Frequencies (Metody izmereniya krivyykh namagnichivaniya i poter' magnitomyagkikh splavov na zvukovykh i ul'trazvukovykh chastotakh)

PERIODICAL: Sb. tr. Tsentr. n. -i. in-t chernoy metallurgii, 1956, Nr 15, pp 152-163

ABSTRACT: Equations and a bridge circuit are suggested to make it possible to measure the magnetic permeability and magnitude of total losses  $L$  of magnetically nonretentive alloys at induction values of 80% of saturation. The frequency range in measurements by this method was 400-10 kc, and the  $L$  values lay in the  $10^{-5}$ -10 watt interval. Specimens in the form of wound torus rings weighing 5-10 g in ebonite housings, over which the magnetizing and the measuring coils were wound, were employed. A circuit and computational principles for a multiple-limit thermoelectronic wattmeter for the measure-

Card 1/2

137-58-2-3858

Methods of Measuring Magnetization (cont. )

ment of L, in which the measuring thermocouples were connected counter-current at the output of two identical amplifiers, were also developed. To extend the limits of measurement, voltage dividers are present in the first stages of the amplifiers. If the thermocouple curve is sufficiently close to the quadratic, and if the resistances in the circuit are precisely adjusted, the error of measurement in this wattmeter does not exceed 6-8%, and the working frequencies thereof are within the 10-100 kc range.

P.S.

1. Alloys--Magnetic properties--Measurement

Card 2/2

GURVICH, Ye.I.; SINITSYN, K.K.

Electrolytic method for reducing thickness of samples for  
magnetic and structural studies. Zav.lab. 22 no.10:1206-1207  
'56. (MLRA 10:5)

1.TSentral'nyy nauchno-issledovatel'skiy institut chernoy metal-  
lurgii.

(Polishing, Electrolytic)  
(Metallography)

GURVICH, YE. I.

PHASE I BOOK EXPLOITATION SOV/3528

Moscow. Dom nauchno-tekhnicheskoy propagandy

Primeneniye ul'trazvuka v promyshlennosti: sbornik statey (Industrial Use of Ultrasound; Collection of Articles) Moscow, Mashgiz, 1959. 301 p. 8,000 copies printed.

Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy KPSR.

Ed. (Title page): V.P. Kozlov, Doctor of Physical and Mathematical Sciences, Professor; Ed. (Inside book): G.M. Kozlov, Engineer, Tech. Ed.: V.D. El'kind; Managing Ed. for literature on Machinery and Instrument Manufacturing (Mashgiz): M.V. Pokrovsky, Engineer.

PURPOSE: This book is intended for engineers and technicians engaged in the application of ultrasonics in machinery manufacture and in other branches of industry.

COVERAGE: This is a collection of papers read at the first all-Union conference on the use of ultrasonics in industry. Attention is focused mainly on the description of ultrasonic equipment and its use in the field of nondestructive testing. The book contains information for flaw detection, measurement of thickness, and crystallization processes is also discussed. No personalities are mentioned. References accompany many of the papers.

Kitaygorodskiy, Yu. I., Engineer; and M.O. Kozlov, Candidate of Technical Sciences. Ultrasonic Equipment for Industrial Applications

Markov, A. I., Candidate of Technical Sciences, Docent. Design and Construction of Vibrators for Ultrasonic Machining

Bulycheva, I. N., Candidate of Technical Sciences; Ye. I. Gurchik, Candidate of Technical Sciences; and Ye. P. Selitskiy, Candidate of Technical Sciences. Magnetic Alloys for Ultrasonic Applications

Makarov, I. O., Engineer. Methods of Making Design Calculations for Bar-Type Exponential Ultrasonic Concentrators

Golyamina, I. P., Use of Ferrites as Ultrasonic-Wave Radiators

Semenikov, Yu. B., Engineer. Method of Transforming Input Resistance of a T-Bar Radiator

Sirotyuk, M. O., Engineer. Matching a Generator of Electric Oscillations With a Quartz Radiator Directly Connected With the Generator Circuit

Lavrin, B. M., Engineer. Characteristics of the Ultrasonic Machining of Metals

Mikheyev, M. M., Candidate of Technical Sciences; and A. A. Kinnov, Engineer, both named at the Leningradskiy Metallicheskii Zavod (Leningrad Metal-Products Plant) in the Ultrasonic Drilling of Holes in Quartz Plates

D'yachuk, P. Ye., Doctor of Technical Sciences, Professor; Yu. M. Mironov, Engineer; and V. O. Aver'yantsev, Some Problems in the Ultrasonic Machining of Materials

Tsunin, I. I., Candidate of Physical and Mathematical Sciences. Effect of Elastic Vibrations on the Crystallization and Processing Properties of Alloys

Bagdasarov, Kh. S., Candidate of Chemical Sciences. Effect of Ultrasonic Vibrations on the Process of Crystallization

Shrayber, D. S., Candidate of Technical Sciences. Ultrasonic Flaw Detection

Yermolov, I. M., Engineer. Ultrasonic Instruments Developed by Tashkent for the Measurement of Thickness and Product Control

Gubanova, M. R., Candidate of Technical Sciences. Ultrasonic Detection of Flaws in Massive Welds

Yegorov, K. N., Ultrasonic Inspection of Case Depth in Electrically Hardened Steel Products

Babkin, M. V., Engineer. Design of Piezoelectric Transducers for Ultrasonic Flaw Detectors

1 (3)

AUTHORS:

Gurvich, Ye. I., Kondorskiy, Ye. I.

SOV/48-23-3-10/3: '

TITLE:

The Influence of Macroscopic Inhomogeneity on the Dynamic Characteristics of Magnetically Soft Alloys in Weak Fields (Vliyaniye makroskopicheskoy neodnorodnosti na dinamicheskiye kharakteristiki magnitnykh splavov v slabykh pol'yakh)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 3, pp 324-328 (USSR)

ABSTRACT:

The properties of the ferromagnetic in weak alternating fields are described by the complex magnetic permeability of the substance  $\mu' = \mu - ip'$ . If the permeability decreases more rapidly and if the loss angle tangent increases more rapidly than is the case in figure 1, it is normally assumed that these deviations are brought about by the magnetic dispersion of the substance. Some years ago it was shown experimentally (Ref 7 and 8) that in magnetically weak alloys actually a nonuniform distribution of magnetic properties takes place in the cross-section of the plate. This is mainly due to the reaction of the alloy with the insulating layer applied to the band in the production of the cores which takes place

Card 1/3

The Influence of Macroscopic Inhomogeneity on the SOV/48-23..3-10/81  
Dynamic Characteristics of Magnetically Soft Alloys in Weak Fields

during the annealing. At present, a number of papers on the frequency dependence of magnetic permeability of the permalloy have been published (Refs 9 - 11). It appears from them that the decrease in permeability observed is always higher than might be expected from the effect of the eddy currents in a homogeneous plate. In order to determine the reason for this decrease samples of two alloys were accurately measured. From the results obtained completely opposite conclusions may be drawn on the occurrence of magnetic dispersion and its temperature dependence. It may be assumed that in those cases where the macroscopic homogeneity of the samples employed was not accurately examined the values of the dynamic parameter, which were computed according to experimental frequency characteristics may not be regarded as correct. Even the observation of the magnetic order may be regarded as debatable. There are 3 figures and 12 references, 8 of which are Soviet.

Card 2/3

The Influence of Macroscopic Inhomogeneity on the SCV/48-23-3-10/3:  
Dynamic Characteristics of Magnetically Soft Alloys in Weak Fields

ASSOCIATION: TsMIEChernmet (Central Scientific Research Institute for  
Iron Metallurgy)

Card 3/3

TABLE I BOOK EXTRACTS

Moscow. Tsentrallyy mashinostroyatel'skiy Institut Chernoy Metallurgii.  
Institut proizvodstvennyy splovo

Prilozheniye splovo (Precision Alloys) Moscow, Metallurgidat, 1970. 283 p.  
(Series: 1st. Garmil'nyy, 177. 2) Series slip inserted. 2,565 copies  
printed.

Additional Sponsoring Agency: USSR. Gosstatizdaty planovaya komissiya.  
M.: B.I. Gubriyev; Ed. of Publishing House: Ye.I. Levit; Tech. Ed.:  
Ye.B. Vaynshteyn.

FOREWORD: This book is intended for engineers and scientific personnel in the  
metallurgical, instrument-production, and electrical-equipment industries,  
as well as for industrial personnel engaged in the production of precision  
alloys. It may also be useful to students attending advanced technical schools.

CONTENTS: The articles in this collection present the results of investigations  
conducted in recent years by the Central Scientific Research Institute of  
Precision Metallurgy (Tsentrallyy mashinostroyatel'skiy Institut Chernoy  
Metallurgii). The articles deal with industrial techniques of producing soft  
magnetic alloys, properties and structure of the alloys at extremely low  
temperatures and in high-frequency magnetic fields, deformation textures,  
magnetization, the galvanomagnetic effect, volume changes, etc. Some  
articles are concerned with the investigation of deformed hard magnetic alloys.  
No personalities are mentioned. The articles are accompanied by references,  
both Soviet and non-Soviet.

Gubriyev, B.I. and G.I. Kolyva. Improved Dynamic Grade Electrical  
Steels with Al and As Additions.

Shchegolev, V.N. and K.D. Martynova. Alloys for Magnetic  
Amplifier Cores

Popov, V.P. Investigation of the Properties and Structure of  
Soft Magnetic Alloys of Various Thickness

Gurich, M.I. Dependence of Dynamic Permeability of Ferromagnetic  
Materials on Their Microscopic Heterogeneity

Savitskiy, Ye.I. Dynamic Magnetic Characteristics of Soft Magnetic  
Alloys Under Conditions of High-Induction Values

Bednarev, L.G. Behavior of Certain Ferromagnetic Materials in Weak  
High-Frequency Magnetic Fields (10<sup>3</sup>-10<sup>5</sup> cps)

Podkovy, I.N. and O.A. Zaytseva. Saturation Magnetization of Ferro-  
magnetic Alloys in the Low-Temperature Range

Popov, V.P. and I.N. Podkovy. Longitudinal Galvanomagnetic Effect  
in Iron-Nickel Alloys

Popov, I.M. Investigations of the Energy of Magnetic Anisotropy of  
Nickel

Popov, I.M. and B.V. Molodtsov. Magnetization of Nickel-Iron-  
Molybdenum Alloys

Molodtsov, B.V., I.M. Popov, and A.I. Rad'yev. Volume Magnetization  
of Iron-Nickel-Molybdenum Alloys

Belitskiy, Z.N. and Ye.P. Solov'yev. Magnetization and Some Other  
Properties of Iron-Aluminum Alloys

Belitskiy, Z.N. and Ye.P. Solov'yev. Magnetization and Some Other  
Properties of Iron-Aluminum Alloys

Belitskiy, Z.N. and Ye.P. Solov'yev. Magnetization and Some Other  
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Properties of Iron-Aluminum Alloys

Belitskiy, Z.N. and Ye.P. Solov'yev. Magnetization and Some Other  
Properties of Iron-Aluminum Alloys

Belitskiy, Z.N. and Ye.P. Solov'yev. Magnetization and Some Other  
Properties of Iron-Aluminum Alloys

Belitskiy, Z.N. and Ye.P. Solov'yev. Magnetization and Some Other  
Properties of Iron-Aluminum Alloys

Belitskiy, Z.N. and Ye.P. Solov'yev. Magnetization and Some Other  
Properties of Iron-Aluminum Alloys

Belitskiy, Z.N. and Ye.P. Solov'yev. Magnetization and Some Other  
Properties of Iron-Aluminum Alloys

Belitskiy, Z.N. and Ye.P. Solov'yev. Magnetization and Some Other  
Properties of Iron-Aluminum Alloys

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S/196/62/000/003/001/012  
E194/E155

AUTHOR: Gurvich, Ye. I.

TITLE: The dynamic magnetic characteristics of soft magnetic alloys at high values of induction

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no. 3, 1962, 2, abstract 3 B5. (Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii, no. 23, 1960, 95-107).

TEXT: The characteristics of ferromagnetic materials are considered under conditions of magnetic reversal in an alternating magnetic field. The main characteristics of the materials are: the effective complex permeability at the fundamental frequency

$$\mu_e = \frac{B_m}{\sqrt{2} H_e}$$

and the corresponding peak value

$$\mu_a = B_m / H_m$$

Card 1/2

The dynamic magnetic characteristics... S/196/62/000/003/001/012  
E194/E155

A procedure is described for measuring the complex permeability with an a.c. bridge. Experimental curves of the relationship between the modulus of the complex permittivity and the fundamental frequency as functions of  $\tan \delta$  at inductions up to 8 - 12 kilogauss are given for alloys 80HXC (80NKHS), 50HXC (50NKHS) and 50H (50N) at frequencies of 400, 1000, 4400 and 10000 c/s. The experimental data are compared with the theoretical relationship between the amplitude and the initial permeability according to L.R. Neyman (The surface effect in ferromagnetic bodies, Gosenergoizdat, 1949). It is shown that the formula is valid for dynamic magnetisation conditions. 10 literature references.

[Abstractor's note: Complete translation.]

Card 2/2

S/137/52/000/006/118/163  
A052/A101

AUTHORS: Bulychева, Z. N., Gurvich, Ye. I., Selisskiy, Ya. P.

TITLE: Magnetic alloys used in ultrasonic engineering

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 53, abstract 6I314  
(V sb. "Primeneniye ul'trazvuka v prom-sti". Moscow, Mashgiz, 1959,  
91 - 101)

TEXT: Magnetostrictive and other characteristics of some alloys of practical importance in the production of vibrators are considered. Such materials are pure Ni, Fe-Al alloy with 13.8% Al [Ю 14 (Yul4)], Fe-Co alloys with 65 and 50% Co. Yul4 alloy gains the necessary magnetic properties after a heat treatment in two variants depending on the available equipment: 1) heating to 750°C and 1 hour holding with a subsequent cooling to 250°C and then with the switched off furnace; 2) heating to 750°C and 1 hour holding with a subsequent quick furnace or air cooling, then 2 - 3 hour tempering at 250 - 300°C follows. Yul4 alloy has a fair heat resistance, therefore no special protective media are needed for its heat treatment. After heating to 750°C the surface of plates is just

Card 1/2

Magnetic alloys used in ultrasonic engineering

S/137/62/000/006/118/163  
A052/A101

covered with a thin oxide layer which does not interfere with the assembly of plates in the magnetostriction vibrator pack. Characteristic of the alloy with 50% Co and to a lesser degree of K49Ф2 (K49F2) alloy containing 49% Co and 1.5 - 1.8% V is an increased brittleness after annealing, caused by the formation of an ordered atomic structure. This brittleness is partly eliminated by hardening. K49F2 alloy gains the necessary magnetic properties only after annealing with a subsequent slow cooling. The advantages of K65 (K65) alloy as compared with K49F2 and Yu14 alloy are a high value of magnetostriction, no brittleness and good machinability; its shortcomings are higher remagnetization losses and high costs. Yu14 alloy will be in the years to come the material of mass application in magnetostriction vibrators for ultrasonic engineering. ✓

T. Rumyantseva

[Abstracter's note: Complete translation]

Card 2/2

GURVICH, Ye.I.; SHCHUKIN, L.B.

Selecting a system of parameters and methods of testing large quantities of ferrite cores with a rectangular hysteresis loop used in numerical automatic devices. Trudy inst. Kom. stand. mer  
1 ~~1962~~ prib no. 64:233-242 '62. (MIRA 16:5)  
(Ferrites--Magnetic properties) (Cores (Electricity))

ARUTYUNOV, V.Ya., prof.; GURVICH, Ye.I., prof.; GOLITSBA, P.I., kand.med.nauk

Skin manifestations in nodular vasculitis. Vest.derm.i ven. no.5:  
29-33 '61. (MIRA 14:12)

1. Iz kliniki kozhnykh i venericheskikh bolezney (dir. - prof.  
V.Ya. Arutyunov) Moskovskogo oblastnogo nauchno-issledovatel'skogo  
klinicheskogo instituta imeni M.F. Vladimirskogo (dir. - kand.  
med.nauk P.M. Leonenko).

(BLOOD VESSELS—DISEASES) (SKIN)

ACCESSION NR: AT4035425

8/0000/63/000/000/0406/0416

AUTHOR: Gurvich, Ye. I.; Shohukin, L. B.

TITLE: Methods for measuring the characteristics of miniature storage transformers designed for noncontact elements in automation and computer technology

SOURCE: Vsesoyuznoye soveshchaniye po ferritam i po beskontaktny\*m magnitny\*m elementam avtomatiki. 3d, Minsk. Ferrity\* i beskontaktny\*ye elementy\* (Ferrites and noncontact elements); doklady\* soveshchaniya. Minsk, Izd-vo AN BSSR, 1963, 406-416

TOPIC TAGS: automation, computer, transformer, storage transformer, noncontact element, transformer testing

ABSTRACT: Due to the rectangular hysteresis-loop of the material, the small dimensions and small number of turns in each of the numerous coils, the ferromagnetic core storage transformers widely used in automation and computers require testing procedures different from those usually applied to power, pulse and other transformers. The authors suggest the following simple and adequate testing scheme: (1) testing for coil-to-coil and turn-to-turn short circuits by alternately switching each coil onto one grid phase while all the others are switched onto the other phase through high resistances and a neon signal bulb which flashes in case of a failure; (2) testing the principal ferrite core parameters (magnetization

Card 1/2

ACCESSION NR: AT4035425

reversal signal emf, magnetization reversal duration, and monopolar magnetization interference emf) by passing a calibrated current pulse through a shorter (no more than 3-4 turns) coil, and (3) testing for phasing correctness on the basis of the number of turns in individual coils, determined with the use of a reference coil. Orig. art. has: 4 figures and 12 formulas.

ASSOCIATION: none

SUBMITTED: 04Dec63

DATE ACQ: 07May64

ENCL: 00

SUB CODE: DP, IE

NO REF SOV: 000

OTHER: 000

Card 2/2



16-URVICH, Ye. Ye.  
ca

PROCESSES AND PROPERTIES INDEX

11F

Contents of nitrogen and phosphorus in various architectonic formations of the cortex of the great brain. E. R. Gurvich (Inst. Moscov. Moscow). *Byull. Eksp. Biol. Med.* 19, No. 3, 60-3 (1943).—N and P were detd. in various regions of the cerebrums of 9 dogs. Analyses were made of brain substance freshly extirpated from the occipital (vision) region, the motor, sensory, and other anatomical divisions. The contents in N and P in different regions apparently depend on the histological structure of the cells.  
D. I. Machi

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

STANDARD 44

16-URVICH, Ye. Ye.

GURVICH, Ye. Ye., inzhener

Mine pressure on loose orebodies. Gor. zhur. 122 no. 1:22-25  
Ja '48. (MIRA 8:9)  
(Mining engineering) (Earth pressure)

LIN'KOV, I., inzh.; SHIPOV, B., inzh.; GURVICH, Yu., inzh.

Concrete forms made of lumber and steel. Stroitel' no.3:6 Mr '58.  
(Reinforced concrete construction--Formwork) (MIRA 11:2)

STROKOV, S.A.; DANILOV, V.I.; GURVICH, Yu.A.

The S Sh-70 motor-driven chassis. Trakt. i sel'khoz mash.  
no.1:4-8 Ja '59. (MIRA 12:1)

1. Rostsel'mash.

(Motor vehicles)

GURVICH, Yu.A.

The TS-70 motor-driven chassis for harvesting machines. Biul. tekhn.-ekon.  
inform. no.10:59-61 '59. (MIRA 13:3)  
(Harvesting machinery)

32923

S/194/61/000/011/058/070  
D271/D302

9,2570(1139,1144,1157)

AUTHORS: Gershenzon, Ye.M., Gurvich, Yu.A., Litvak-Gorskaya,  
L.B. and Etkin, V.S.

TITLE: Some problems of development of microwave amplifiers  
based on negative mass of current carriers in semi-  
conductors

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,  
no. 11, 1961, 13, abstract 11 K98 (V sb. Poluprovod-  
nik, pribory i ikh primeneniye, no. 6, M., Sov. ra-  
dio, 1960, 92-102) f

TEXT: The calculation is given of the microwave reflex am-  
plifier making use of the negative effective mass of current carri-  
ers in semiconductors. It is shown that the product of the square  
root of gain  $K$  and transmitted bandwidth  $\Delta f$  increases with the con-  
centration of negative mass carriers. The problem of the intrinsic  
noise of the amplifier is considered and effective temperature of

Card 1/2

32923

S/194/61/000/011/058/070  
D271/D302

Some problems of development...

amplifier noise is evaluated. The upper limit of the effective noise temperature is 100°K for frequencies at which instability of the space charge does not occur. The comparison of the average periods of optical and acoustical scatters leads to the conclusion that acoustic scatter can be avoided by the use of a sufficiently strong electric field. It is suggested that a possibility exists of realizing an amplifier based on negative mass carriers in germanium, operating on d.c. because the amplification effect at the expense of negative mass must take place in this as well. Measurement of the voltage-current characteristic of a specimen may permit one to judge whether negative effective mass carriers are present. 8 references. [Abstracter's note: Complete translation]

Card 2/2

27892  
S/048/61/025/010/002/003  
B104/B112

21.6000

AUTHORS:

Belyayevskiy, A. I., and Gur'yan, Yu. A.

TITLE:

An 11-counter instrument for  $\gamma\gamma$ -angular correlation measurement

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 25, no. 10, 1961, 1291 - 1301

TEXT: By the 11-counter instrument described coincidence measurements in five angles ( $163^\circ$ ,  $147^\circ$ ,  $130^\circ$ ,  $114^\circ$ ,  $98^\circ$ ) may be carried out simultaneously. The coincidence of two  $\gamma$ -quanta emitted in a disintegration cascade is counted in an arbitrary combination of counters, and is recorded by a mechanical counter. 55 high-speed coincidence circuits and 22 single-channel analyzers are necessary for this purpose. The resolving time of the instrument is  $\sim 4 \cdot 10^{-8}$  sec. In Fig. 1, a block diagram of the instrument is shown. The maximum amplitude of the pulses delivered to the diode matrix is 30-50 v. Therefore, the amplitude and time selection in the diode matrix is carried out without amplification. In the diode matrix, the outputs of the above mentioned 55 coincidence

Card 1/4



27892  
S/048/61/025/010/002/003  
B104/B112

An 11-counter instrument for...

circuits are connected to 5 rails. Each of them corresponds to a certain angle of divergence. The matrix block, the high-speed coincidence circuits, the block of controlled triggers, and the block of automatic tuning and stabilizing are discussed in detail. For amplitude and time selection of the pulses, two ordinary channel fast-slow coincidence circuits are used in the diode matrix. The instrument was tested with  $\text{Se}^{46}$  (892-1118 kev cascade) and  $\text{Na}^{22}$  sources (511 kev annihilation quanta-1270 kev transition). The results obtained with the  $\text{Se}^{46}$  source coincide with the theoretical curve. The experimental points obtained with the  $\text{Na}^{22}$  source lie on a straight line. The efficiency of the instrument described is 110 times higher than that of a two-counter instrument. A. V. Kulikov is mentioned. The authors thank G. S. Vil'dgrube for supplying 12  $\Phi\text{3Y-13}$  (FEU-13) photomultipliers, and I. F. Bugakov for help with assembling. There are 7 figures and 6 references: 1 Soviet and 5 non-Soviet. The three most recent references to English-language publications read as follows: Park, J., Scient. Instrum., 31, 257 (1956); Jacobson B. A., Henley E.M., Phys.Rev., X

Card 2/4

An 11-counter instrument for...

27892 ...  
S/048/61/025/010/002/003  
B104/B112

113, 234 (1959); Johansson B., Nucl. Instrum., 1, 274 (1957).

ASSOCIATION: Fiziko-tekhnicheskii institut im. A. F. Ioffe Akademii nauk  
SSSR (Physicotechnical Institute imeni A. F. Ioffe of the  
Academy of Sciences USSR)

Fig. 1. Block diagram of the instrument. Legend: (1) - (11) ФЭУ-13  
(FEU-13) photomultiplier with cathode follower (KKП (KKP)); (A) automatic  
tuning and stabilizing block; (B) diode matrix; (C) controlled Park  
triggers; (D) recording device; (E) triple coincidence selector;  
(F) anti-coincidence circuit; (G) high-speed coincidence circuit;  
(H) triple coincidence circuit; (I) single channel analyzers.

Card 3/4

X

BENEDETTI, S. de; GUR'YAN, Yu. [translator]

Mössbauer effect as a new tool of physics research (from "Scientific  
American"). Tskh.mol. 29 no.5:37-40 '61. (MIRA 14:5)  
(Relativity (Physics))

ACCESSION NR: AT3011981

S/2657/63/000/009/0029/0035

AUTHORS: Gershenzon, Ye. M.; Gurvich, Yu. A.; Litvak-Gorskaya, L. B.

TITLE: An ultra-high frequency modulator based on the Suhl effect

SOURCE: Poluprovodnikovyye pribory\* i ikh primeneniye. Sbornik statey, no. 9, 1963, 29-35

TOPIC TAGS: ultra-high frequency, modulator, Suhl effect, carrier, absorption, surface recombination, wave guide, Lorentz force, Ge, diffusion length, Si

ABSTRACT: Modulating action of a modulator involves control of ultra-high frequency absorption by changing carrier concentration in the semiconducting material placed in the wave guide when mutually perpendicular electrical and magnetic fields are applied to this material. The setup is shown in Fig. 1 (see Enclosures). The Lorentz force thus arising deflects the carriers to one side of the plate or the other, depending on the mutual orientation of the fields. When the rate of surface recombination is substantially different on opposite sides of the plate, there occurs in the plate either an increase or decrease in total number of carriers. Tests were made on Ge ( $\rho \approx 45-55$  ohm cm, diffusion length of about 2 mm) in plates  $50 \times 10 \times 0.3$  to  $50 \times 10 \times 0.7$  mm. One side of the plate was etched in boiling  
Card 1/7